

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applic	cants: Andrew Powell, Jeremy Turnbull and Edwin Yates		
	Vational Phase Application of ernational Application No.: PCT/GB2003/003236 Filed: 17 July 2003		
Assign	ned United States Application No.: 10/521,522		
Group	Art No.: 1645 Confirmation No.: 2122		
Title:	SACCHARIDE LIBRARIES		
	CERTIFICATE OF MAILING OR TRANSMISSION I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as First Class Mail in an envelope addressed to Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, or is being facsimile transmitted to the United States Patent and Trademark Office on: Date Signature RACHEL MEEHAN Typed or printed name of person signing certificate		
	INFORMATION DISCLOSURE STATEMENT		
P.O. B	nissioner for Patents Box 1450 ndria, VA 22313-1450		
Sir:			
This I	nformation Disclosure Statement is submitted: under 37 CFR 1.129(a), or (First/Second submission after Final Rejection)		
[X]	[X] under 37 CFR 1.97(b), or (Within any one of the following time periods: three months of filing national application (other than a CPA) or date of entry of the national stage in an international application; or before the mailing date of a first office action on the merits in a non-provisional application, including a CPA, or a Request for Continued Examination).		
[]	under 37 CFR 1.97(c) together with either: [] a Statement under 37 CFR 1.97(e), as checked below, or [] a \$180.00 fee under 37 CFR 1.17(p), or (After the 37 CFR 1.97(b) time period, but before final action or notice of allowance, whichever occurs first)		
[]	under 37 CFR.1.97(d) together with: [] a Statement under 37 CFR 1.97(e), as checked below, and [] a \$180.00 fee under 37 CFR 1.17(p), or (Filed after final action or notice of allowance, whichever occurs first, but on or before payment of the issue fee)		
[]	under 37 CFR 1.97(i): Applicant requests that the IDS and cited reference(s) be placed in the application filewrapper. (Filed after payment of issue fee)		

Statement Under 37 CFR 1.97(e)

[]	cited in	m of information contained in this Information Disclosure Statement was first any communication from a foreign patent office in a counterpart foreign ion not more than three months prior to the filing of this Information Disclosure nt; or			
[]	No item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersigned, after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of this Information Disclosure Statement.				
		er 37 CFR 1.704(d) (Patent Term Adjustment) olications (other than design) filed on or after May 29, 2000)			
[]	a comi	m of information contained in the Information Disclosure Statement was cited i unication from a foreign patent office in a counterpart application and this nication was not received by any individual designated in -§ 1.56(c) more than any prior to the filing of the Information Disclosure Statement.	n		
[X]	Enclos [X]	d herewith is form PTO-1449: Copies of the cited references (AL-AN and AR-AS2) are enclosed. [X] Since this application was filed after June 30, 2003, copies of issued U.S patents and published U.S. applications are not required and are not bein provided.			
	[]	Copies of cited references are enclosed except those entered in prior application U.S. Application No. [], to which priority under 35 U.S.C. 120 is claimed. The earlier application contains copies of the cited references.]	,		
	[X]	Γhe listed references (AF & AS2) were cited in the enclosed International Searc Report in a counterpart foreign application.	h		
	[]	The "concise explanation" requirement (non-English references) for reference(s under 37 CFR 1.98(a)(3) is satisfied by: [] the explanation provided on the attached sheet. [] the explanation provided in the Specification. [] submission of the enclosed International Search Report. [] submission of the enclosed English-language version of a foreign Search Report and/or foreign Office Action. [] the enclosed English language abstract.	-		

It is requested that the information disclosed herein be made of record in this application.

Method of payment:

- [] A check for the fee noted above is enclosed, or the fee has been included in the check with the accompanying Reply. A copy of this Statement is enclosed. Please charge Deposit Account [] in the amount of [\$]. A copy of this Statement is [] enclosed.
- Please charge any deficiency in fees and credit any overpayment to Deposit Account [X] 502807.

Respectfully submitted,

ELMORE, CRAIG & VANSTONE, P.C.

Carolyn S. Elmore

Registration No.: 37,567 Telephone: (978) 251-3509 Facsimile: (978) 251-3973

Chelmsford, MA 01863
Dated: August 10, 2005

PTO-1449 REPRODUCED INFORMATION DISCLOSURE CITATION	ATTORNEY DOCKET NO. 4033.3000 US	U.S. NATIONAL PHASE OF INTERNATIONAL APPLICATION NO. PCT/GB2003/003236	
IN AN APPLICATION June 13, 2005	FILING DATE	ASSIGNED UNITED ST APPLICATION NO.: 1	-
(Use several sheets if necessary)	FIRST NAMED APPLICANT Andrew Powell	CONFIRMATION NO.	GROUP

.

.

			U.S. PA	ATENT DOCU	MENTS			
EXAM- INER INI- TIAL	ER . REF		l I	IM-DD-YYYY SSUE DATE / LICATION DATE	NAME OF PATEN' CITED	TEE OR APPLIC DOCUMENT	ANT OF	
	AA	US-5,430,133		July 4,1995		Piani, et al.		
	АВ	US-5,405,949		April 11, 19			t al.	
	AC	US-5,543,403		August 6, 1	996	Petitou, et al.		
	AD US-5,958,899 AE US-4,717,719 AF US-6,127,347 AG 5,795,860 AH US 2001/0051349 A1		September	28, 1999	Zoppetti, et al.			
			January 5,	1988	Sportoletti, et al.			
			October 3,	2000	Holme, et al. Witt et al. Dukler et al.			
			08-18-1998	3				
			12-13-2001					
FOREIGN PATENT DOCUMENTS								
		DOCUMENT NUMBER		DD-YYYY ATION DATE	NAME OF PATENTEE OF CITED DOCU	3	TRANSLAT YES	NO NO
	AL	EP 0380719	1990-	-AUG-08	AJORCA SA (AR) Domanico Ricardo Hu	igo, et al.		
	AM	EP 0 557 887 B1	12-1	7-1997	Lino Liverani et al.			
	AN	WO 01/40796 A3	06-0	7-2001	Thermo Hybaid GM	BH et al.		

	OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)				
Kariya, Yutaka, et al., "Preparation of Completely 6-O-Desulfated Heparin and Its Ability to Enhance Activity of Basic Fibroblast Growth Factor," J. Biol. Chem., 275(34): 25949-25958 (2000).					
ļ.	AS	Yates, Edwin A., et al., "Evidence for a Heparin Derivative Containing an N-Sulfated Aziridine Ring that Retains High Anti-Factor Xa Activity," Carbohydr. Res., 298:335-340 (1997).			
	AT	M. Jaseja, et al., "Novel Regio- and Stereoselective Modifications of Heparin in Alkaline Solution. Nuclear Magnetic Resonance Spectroscopic Evidence," Can. J. Chem., 67:1449-1456 (1989).			
J.	AU	Guimond, S.E. and Turnball, J.E., "Fibroblast Growth Factor Receptor Signalling is Dictated by Specific Heparan Sulphate Saccharides," <i>Curr Biol.</i> , 9:1343-1346 (1999).			
1	AV	Irie, A., et al., "Specific Heparan Sulfate Structures Involved in Retinal Axon Targeting," Development, 129: 61-70 (2002).			
,	AW	Kreuger, J., et al., "Sequence Analysis of Heparan Sulfate Epitopes with Graded Affinities for Fibroblast Growth Factors 1 and 2," J. Biol Chem., 276(33): 30744-30752 (2001).			

EXAMINER	DATE CONSIDERED

PTO-1449 REPRODUCED INFORMATION DISCLOSURE CITATION	ATTORNEY DOCKET NO. 4033.3000 US	U.S. NATIONAL PHASE OF INTERNATIONAL APPLICATION NO. PCT/GB2003/003236	
IN AN APPLICATION June 13, 2005	FILING DATE	ASSIGNED UNITED STA	
(Use several sheets if necessary)	FIRST NAMED APPLICANT Andrew Powell	CONFIRMATION NO.	GROUP

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)				
AX	Nadkarni, V.D. and Linhardt, R.J., "Directional Immobilization of Heparin onto the Nonporous Surface of Polystyrene Microplates," <i>Biotechniques</i> , 23:382-385 (1997).			
AY	Nadkarni, V.D., et al., "Directional Immobilization of Heparin onto Beaded Supports," Anal Biochem., 222: 59-67 (1994).			
AZ	Yates, Edwin A., et al., "H and C NMR Spectral Assignments of the Major Sequences of Twelve Systemically Modified Heparin Derivatives," Carbohydrate Research, 294: 15-27 (1996).			
AR2	Dove, Alan, "The Bittersweet Promise of Glycobiology," Nature Biotechnology, 19: 913-917 (2001).			
AS2	Database Biosis, Biosciences Information Service, Philadelphia, PA, US. Wu, Zhengliang L., et al., "A New Strategy for Defining Critical Functional Groups on Heparan Sulfate," FASEB J., 16(6), XP002268531 abstract (2002).			

EXAMINER	DATE CONSIDERED